

IN THE CLAIMS:

The following listing of the claims replaces all earlier listings and all earlier versions.

1. - 32. (Canceled).

33. (Currently Amended) An apparatus for forming a registered ink-laden image on a non-planar printing surface of a shaped edible piece, the apparatus comprising:

a transport surface including at least one shaped recess having a non-planar surface corresponding to the shaped edible piece and a vacuum hole positioned within the shaped recess, said edible piece being laterally, longitudinally and rotationally positioned within the shaped recess at a predetermined position;

a first printer station at a first position along a transport path that applies a first component image of said registered image in ink on the shaped piece while in the predetermined position;

a second printer station downstream from the first position that applies a second component image of said registered image on the edible piece in registration with the first component image of the registered image;

a vacuum pump in communication with and applying a pressure differential to the vacuum hole to maintain the edible piece in the predetermined position within the recess while the edible piece is at and between the first and second print stations; and

a valve system connected to the vacuum pump that applies a first pressure differential at the print printer stations and a second pressure differential, less than the first pressure differential, between the print printer stations.

34. (Previously presented) The apparatus according to claim 33, wherein the non-planar printing surface of said edible piece protrudes above the transport surface.

35. (Original) The apparatus according to claim 33, wherein the vacuum hole is positioned at a deepest portion of said shaped recess.

36. (Original) The apparatus according to claim 33, wherein the vacuum hole is positioned on a side wall of the shaped recess.

37. (Canceled)

38. (Original) The apparatus according to claim 33, further comprising a vacuum plenum system between the shaped recesses and the vacuum pump and disposed below the transport path.

39. (Original) The apparatus according to claim 38, wherein the vacuum plenum system includes first and second portions that extend transverse to the transport path below the first and second print stations, respectively, and a third portion including sub-plenums that extend parallel to the transport path between the first and second print stations.

40. (Original) The apparatus according to claim 39, wherein the first and second portions of the plenum system are subject to first and second pressure differentials and that are substantially equal, and the third portion of the plenum system is subject to a third pressure differential less than the first and second pressure differentials.

41. (Original) The apparatus according to claim 39, wherein the transport surface comprises at least one carrier bar including a row of shaped recesses identical to said at least one shaped recess, wherein said first and second portions or the plenum system are dimensional to have widths substantially equal to a width of the row of shaped recesses on the carrier bar.

42. (Original) The apparatus according to claim 41, wherein each of said sub-plenums in said third portion of said plenum system corresponds to one of said shaped recesses in said row.

43. (Original) The apparatus according to claim 33, wherein said transporting recess portion includes a resilient portion.

44. (Original) The apparatus according to claim 33, wherein said apparatus comprises a multi-lane system and total output of said apparatus is at least 1,000 pieces per lane per hour.

45. (Original) The apparatus according to claim 33, wherein said first printing station or said second printing station comprises an offset printer.

46. (Original) The apparatus according to claim 33, wherein said first printing station or said second printing station comprises an inkjet printer.

47. - 58. (Canceled).

59. (Currently Amended) An apparatus for forming a registered ink-laden image on a non-planar printing surface of a shaped edible piece, the apparatus comprising:

a transport surface including at least one shaped recess having a non-planar surface corresponding to the shaped edible piece and a vacuum hole positioned within the shaped recess, said edible piece being laterally, longitudinally and rotationally positioned within the shaped recess at a predetermined position;

a first printer station at a first position along a transport path that applies a first component image of said registered image in ink on the shaped piece while in the predetermined position;

a second printer station downstream from the first position that applies a second component image of said registered image in ink on the edible piece in registration with the first component image of the registered image;

means for applying a pressure differential to the vacuum hole to maintain the edible piece in the predetermined position within the recess while the edible piece is at the first and second print printer stations; and

means for applying a pressure differential to the vacuum hole while the edible piece is between the ~~print~~ printer stations.

60. (Currently Amended) An apparatus for forming a registered ink-laden image on a non-planar printing surface of a shaped edible piece, the apparatus comprising:

a transport surface including at least one shaped recess having a non-planar surface corresponding to the shaped edible piece and a vacuum hole positioned within the shaped recess, said edible piece being laterally, longitudinally and rotationally positioned within the shaped recess at a predetermined position;

a first offset printer station at a first position along a transport path that ~~forms~~ applies a first component image of said registered image in ink on the shaped piece while in the predetermined position;

a second offset printer station downstream from the first position that ~~forms~~ applies a second component image of said registered image in ink on the edible piece in registration with the first component image of the composite image;

a vacuum pump in communication with and applying a pressure differential to the vacuum hole to maintain the edible piece in the predetermined position within the recess while the edible piece is at and between the first and second ~~print~~ printer stations;

means for allocating pressure applied to the edible piece at the first and second ~~print~~ printer stations and between the first and second ~~print~~ printer stations.